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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,391	04/15/2005	Masashi Watanabe	070759-0033 6874	
20277 7590 01/08/2008 MCDERMOTT WILL & EMERY LLP			EXAMINER	
600 13TH STR	EET, N.W.		NIU, XINNING	
WASHINGTON, DC 20005-3096			ART UNIT	PAPER NUMBER
			2828	
			MAIL DATE	DELIVERY MODE
			01/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/531,391	WATANABE ET AL.			
		Examiner	Art Unit			
		Xinning(Tom) Niu	2828			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. If period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>05 De</u>	ecember 2007.				
,—	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,2,4,5 and 9 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,2,4,5 and 9 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers						
9) <u> </u>	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the lidrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen		A) [] -4	(PTO 412)			
2) Notice 3) Information	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1, 2, 4, 5 9 rejected under 35 U.S.C. 103(a) as being unpatentable over De Poorter (U.S. Patent 5,578,863) in view of Onomura et al. (2002/0039374).
- 3. Regarding Claim 1, De Poorter discloses:
 - Semiconductor laser device (10) comprising a semiconductor laser element (3) inside an airtight sealed package (20) (Figure 1).
 - Atmospheric gas inside the package contains oxygen (Col 4, Lines 21-23).
 - Atmospheric gas inside the package is a mixture of oxygen and
 nitrogen with an oxygen content of 20% or more (Col 2, Lines 23-44).

De Poorter does not disclose:

 Semiconductor laser device having active region formed of a gallium nitride based crystal.

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However, Onomura et al. disclose:

InGaN quantum well laser (claim 15).

Output of semiconductor laser device is 30mW or more.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the laser apparatus as taught by De Poorter by mounting the InGaN laser device on the laser package in order to emit optical radiation at a lower wavelength.

- 4. Regarding Claim 2, De Poorter discloses:
 - Semiconductor laser element having a dielectric oxide film (4) formed on a laser emission surface (Figure 1; Col 3, Lines 59-62).
- 5. Regarding Claim 4, De Poorter as modified discloses:
 - Semiconductor laser emitting light having a wavelength of 0.9 μm or less (Onomura et al. ([0058]).
- 6. Regarding Claim 5, De Poorter discloses:
 - Semiconductor laser element (3) arranged in airtight sealed package
 and atmospheric gas inside the package is a mixture of oxygen and
 nitrogen with an oxygen content of 20% or more (dry air) (Figure 1, Col
 2, Lines 23-44, Col 3, Lines 47-67).

De Poorter does not disclose:

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Output of semiconductor laser device is 30mW or more.

 Semiconductor laser device having active region formed of a gallium nitride based crystal.

However, Onomura et al. disclose:

Output of semiconductor laser device is 30mW or more ([0058]).

InGaN quantum well laser (claim 15).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the laser apparatus as taught by De Poorter by mounting the InGaN laser device on the laser package in order to emit optical radiation at a lower wavelength.

7. Regarding claim 9, please see the rejection for claim 5.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xinning(Tom) Niu whose telephone number is 571-270-1437. The examiner can normally be reached on M-T, 7:30-5:00 EST, Alternate Fridays 7:30-4:00 ES.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Xinning Niu 12/20/2007

